Z-STIME5

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Description

Return a list of time ranges in which all or most of the specified attendees and/or cabinets are available.

This subprogram is the same as Z-STIME with the exception that it uses time slices consisting of 5 minutes (not full quarters of an hour) and that the Work-parameter has a different format.

This subprogram can be used, for example, in the following situations:

- **Situation: Basic meeting information and addressees have not been specified.**
  Before calling Z-ADD06 (add the basic information of a meeting) and Z-ADDATT (add attendees and resources to a meeting), run this subprogram with parameter Attendee-ISN. Specifying the parameter Calendar-ISN only makes sense when basic meeting information and addressees have already been added (see below).

- **Situation: Basic meeting information and addressees have been added, but the invitations have not been sent (meeting is pending). You want to search the cabinets of either current attendees or newly added attendees for free time.**
  To search the cabinets of the current attendees for free time, specify parameter Calendar-ISN without Attendee-ISN. The first 50 attendees are checked for free time and the ISNs of all checked attendees are returned.

  To search the cabinets of newly added attendees for free time, specify parameter Attendee-ISNs without Calendar-ISN.

- **Situation: Invitations for a meeting (version *n*) have been sent. You need to modify the basic meeting information or add new attendees (the version number for the meeting will be increased by one).**
  To search the cabinets of the current attendees for free time after modifying the basic meeting information, specify parameter Calendar-ISN without parameter Attendee-ISN. The cabinets of the first 50 previously invited attendees are searched for free time. The time range occupied by the previous version is viewed as free time. The ISNs of the checked attendees are returned.

  To search the cabinets of the newly added attendees for free time, specify parameter Attendee-ISNs without Calendar-ISN.

Up to 24 hours can be specified in the parameters Search-for-hours and Search-for-minutes.

The search period is always set to time slices consisting of 5 minutes. Example: when you specify the time range 1:14 to 2:37, this is automatically set to 1:15 to 2:35.

The values specified in the parameters Search-for-hours and Search-for-minutes are also set to time slices consisting of 5 minutes. Example: when you specify 38 minutes, this is automatically set to 40 minutes.

If Start-time and End-time are not specified, the time range from 0:00 to 23:59 is automatically provided.

The date range must be less than or equal to 90 days.

If the parameter Separate-daily-entries is specified, the meeting occupies only the specified time range for each day. If the parameter Separate-daily-entries is not specified, the whole time range starting with the Start-time of the first day and ending with the End-time of the last day is reserved.

All time parameters are interpreted as GMT (0). Therefore, when changing the suggested time ranges into a user time format, it is possible that a continuous time range is split into two days.

Using the parameter Number-of attendees, the array of Attendee-ISNs can be limited.

Each Attendee-ISN is checked and returned in the parameter Return-status.

Found free time is returned in the Free-time-array. This may include up to 20 time ranges. The parameter Found-attendees indicates the number of attendees for which free time was found. If no free time was found for some of the attendees, the Free-time-array provides the 20 best suggestions (in this case, no iterative calls are required).

This subprogram may be invoked iteratively until the return code is 77.

Parameters

Parameter	Format	In	Out	Remarks
Return-code	N2	O	X	Input -1: no ET.
Cabinet	A8	R		The cabinet which contains the meeting to be added or modified.
Password	A8	R		The password of the above cabinet.
Calendar-ISN	P10	R/O		Required, if Attendee-ISN is not specified. The ISN of the meeting for which the time range is to be changed. If Attendee-ISN is not specified, the first 50 attendees are checked for free time. The time occupied by the previous version of this meeting is viewed as free time.
Start-date	A8	R		The starting date of the meeting. Format yyyymmdd.
Start-time	A4	O		The starting time of the meeting. Format hhmm.
End-date	A8	O		The ending date of the meeting. Format yyyymmdd.
End-time	A4	O		The ending time of the meeting. Format hhmm.
Separate-daily-entries	A1	O		If marked, the meeting occupies only the specified time range for each day. If not marked, the whole time range starting with the Start-time of the first day and ending with the End-time of the last day is reserved.
Search-for-hours	N2	R		Search for free time: the number of hours.
Search-for-minutes	N2	R		Search for free time: the number of minutes.
Number-of-attendees	I1	R		The number of attendees in whose calendar you want to search for free time. Default and maximum: 50.
Attendee-ISN	P10/1:50	R/O	X	Required, if Calendar-ISN is not specified. The ISN of each attendee's cabinet that is to be searched for free time. For an attendee (object number 1), use the ISN that you have previously returned by one of the Z-GET01 subprograms. For a cabinet (object number 5), use the ISN that you have previously returned by Z-DIS05. Output: If Calendar-ISN is specified without Attendee-ISN, the ISNs of checked attendees are returned.
Return-status	I1/1:50		X	Return status about free time corresponding to the Attendee-ISNs returned. 00=address accepted, 01=address rejected, 04=Attendee-ISN not found, 33=Attendee not unique.
Free-time-array (20)				
Found-start-date	A8		X	Start date of found free time.
Found-start-time	A4		X	Start time of found free time.
Found-end-time	A4		X	End time of found free time.

Parameter	Format	In	Out	Remarks
Found-attendees	I1		X	The number of attendees for which free time was found.
Work-parameter	B1/1:1214			For internal use. See *The Work Parameter*.

Return Codes

00	Success
02	Invalid cabinet name
03	Password incorrect
04	ISN was not found
18	API context buffer not available
24	Security violation
33	Attendee not unique.
39	Time range too small for search
40	Date range is negative or more than 90 days
41	Invalid start-date
42	Invalid start-time
43	Invalid end-date
44	Invalid end-time
49	Invalid value for Search-for-hours/Search-for-minutes
50	Value for Search-for-hours/Search-for-minutes is greater than specified time range
77	End of list
96	No free time found

Subprograms

Z-061625
Z-061635
Z-120
Z-122
Z-123
Z-165
Z-175
Z-120&0

Example

```
DEFINE DATA
LOCAL
*
1 RETURN-CODE            (N2)
1 CABINET                (A8)
1 PASSWORD               (A8)
1 CALENDAR-ISN           (P10)
1 START-DATE             (A8)
1 START-TIME             (A4)
1 END-DATE               (A8)
1 END-TIME               (A4)
1 SEPARATE-DAILY-ENTRIES (A1)
1 SEARCH-FOR-HOURS       (N2)
1 SEARCH-FOR-MINUTES     (N2)
1 NUMBER-OF-ATTENDEES    (I1)
1 ATTENDEE-ISN           (P10/1:50)
1 RETURN-STATUS          (I1/1:50)
1 FREE-TIME-ARRAY        (20)
  2 FOUND-START-DATE     (A8)
  2 FOUND-START-TIME     (A4)
  2 FOUND-END-TIME       (A4)
  2 FOUND-ATTENDEES      (I1)
1 WORK-PARAMETER         (B1/1:1214)
END-DEFINE
*
MOVE 'Cabinet'  TO CABINET
MOVE 'Password' TO PASSWORD
* MOVE 117412   TO CALENDAR-ISN /* do not consider previous version!
MOVE '20010505' TO START-DATE
MOVE '1900'     TO START-TIME
MOVE '20010508' TO END-DATE
MOVE '2100'     TO END-TIME
MOVE 'X'        TO SEPARATE-DAILY-ENTRIES
MOVE 2          TO SEARCH-FOR-HOURS
MOVE 00         TO SEARCH-FOR-MINUTES
MOVE 2          TO NUMBER-OF-ATTENDEES
MOVE 29300      TO ATTENDEE-ISN (1)
MOVE 2191       TO ATTENDEE-ISN (2)
*
CALLNAT 'Z-STIME5'
  RETURN-CODE
  CABINET
  PASSWORD
  CALENDAR-ISN
  START-DATE
```

```
     START-TIME
     END-DATE
     END-TIME
     SEPARATE-DAILY-ENTRIES
     SEARCH-FOR-HOURS
     SEARCH-FOR-MINUTES
     NUMBER-OF-ATTENDEES
     ATTENDEE-ISN(*)
     RETURN-STATUS(*)
     FREE-TIME-ARRAY (*)
     WORK-PARAMETER  (*)
*
WRITE
  '=' CABINET /
  '=' PASSWORD /
  '=' CALENDAR-ISN /
  '=' START-DATE
  '=' START-TIME /
  '=' END-DATE
  '=' END-TIME /
  '=' SEPARATE-DAILY-ENTRIES /
  '=' RETURN-STATUS(1:3) /
  '  Found Periods: Date       From       To    Attendee' /
  '               '  FOUND-START-DATE(1) ' '   FOUND-START-TIME(1)
  ' '                FOUND-END-TIME  (1) ' '   FOUND-ATTENDEES    (1) /
  '               '  FOUND-START-DATE(2) ' '   FOUND-START-TIME(2)
  ' '                FOUND-END-TIME  (2) ' '   FOUND-ATTENDEES    (2) /
  '               '  FOUND-START-DATE(3) ' '   FOUND-START-TIME(3)
  ' '                FOUND-END-TIME  (3) ' '   FOUND-ATTENDEES    (3) /
  '               '  FOUND-START-DATE(4) ' '   FOUND-START-TIME(4)
  ' '                FOUND-END-TIME  (4) ' '   FOUND-ATTENDEES    (4) /
  '               '  FOUND-START-DATE(5) ' '   FOUND-START-TIME(5)
  ' '                FOUND-END-TIME  (5) ' '   FOUND-ATTENDEES    (5) /
*
IF RETURN-CODE NE 0
  WRITE / 'Return code' RETURN-CODE
ELSE
  WRITE / 'Return status OK'
END-IF
*
END
```